STIC Biotechnology Systems Branch

RAW SEQUENCE LISTING
ERROR REPORT

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Application Serial Number: _09/980,845A_
Source: _1FWP_
Date Processed by STIC: _1/18/06_

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2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY
FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO **REDUCE** ERRORED SEQUENCE LISTINGS, **PLEASE** USE THE **CHECKER VERSION 4.4.0 PROGRAM**, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:
    http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.
Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.
Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (**<http://www.uspto.gov/ebc/efs/downloads/documents.htm>** , **EFS Submission User Manual** - ePAVE)
2. **U.S. Postal Service:** Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
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Revised 01/10/06

IFWP

RAW SEQUENCE LISTING   DATE: 01/18/2006
PATENT APPLICATION: US/09/980,845A TIME: 15:36:00

   Input Set : A:\seqlistcorrected.2002.06.21.txt
   Output Set: N:\CRF4\01182006\I980845A.raw

```
      3 <110> APPLICANT: Handfield, Martin
      4        Brady, Jeannine
      5        Progulske-Fox, Ann
      6        Hillman, Jeffrey D.
      8 <120> TITLE OF INVENTION: Microbial Polynucleotides Expressed During Infection of
      9        a Host
     11 <130> FILE REFERENCE: MBHB00-505B
C--> 13 <140> CURRENT APPLICATION NUMBER: US/09/980,845A
C--> 14 <141> CURRENT FILING DATE: 2001-11-15
     16 <150> PRIOR APPLICATION NUMBER: 60/147,551
     17 <151> PRIOR FILING DATE: 1999-08-06
     19 <150> PRIOR APPLICATION NUMBER: PCT/US00/21340
     20 <151> PRIOR FILING DATE: 2000-08-04
     22 <160> NUMBER OF SEQ ID NOS: 20
     24 <170> SOFTWARE: PatentIn Ver. 2.1
     26 <210> SEQ ID NO: 1
     27 <211> LENGTH: 849
     28 <212> TYPE: DNA
     29 <213> ORGANISM: Actinobacillus actinomycetemcomitans
     31 <220> FEATURE:
     32 <221> NAME/KEY: misc_feature
     33 <222> LOCATION: (566)
     34 <223> OTHER INFORMATION: N stands for any nucleotide.
     36 <220> FEATURE:
     37 <221> NAME/KEY: misc_feature
     38 <222> LOCATION: (625)
     39 <223> OTHER INFORMATION: N stands for any nucleotide.
     41 <220> FEATURE:
     42 <221> NAME/KEY: misc_feature
     43 <222> LOCATION: (627)
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     47 <221> NAME/KEY: misc_feature
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     53 <222> LOCATION: (650)
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     56 <220> FEATURE:
     57 <221> NAME/KEY: misc_feature
     58 <222> LOCATION: (656)
     59 <223> OTHER INFORMATION: N stands for any nucleotide.
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Does Not Comply
Corrected Diskette Needed

P4

RAW SEQUENCE LISTING   DATE: 01/18/2006
PATENT APPLICATION: **US/09/980,845A**   TIME: 15:36:00

Input Set : **A:\seqlistcorrected.2002.06.21.txt**
Output Set: **N:\CRF4\01182006\I980845A.raw**

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 67 <221> NAME/KEY: misc_feature
 68 <222> LOCATION: (672)
 69 <223> OTHER INFORMATION: N stands for any nucleotide.
 71 <220> FEATURE:
 72 <221> NAME/KEY: misc_feature
 73 <222> LOCATION: (681)
 74 <223> OTHER INFORMATION: N stands for any nucleotide.
 76 <220> FEATURE:
 77 <221> NAME/KEY: misc_feature
 78 <222> LOCATION: (720)
 79 <223> OTHER INFORMATION: N stands for any nucleotide.
 81 <220> FEATURE:
 82 <221> NAME/KEY: misc_feature
 83 <222> LOCATION: (723)
 84 <223> OTHER INFORMATION: N stands for any nucleotide.
 86 <400> SEQUENCE: 1
 87 gatcgcgtaa acggtgtaac acggaaagca attgtttaat gtcggcaaaa tgcagccctg 60
 88 tggtcggttc gtccagaata tacagggttt tgcccgtatc ccgtttggag agttccgtcg 120
 89 ccagtttcac ccgttgcgct tccccgccgg acagggtggt agaggattgc cccaagcgaa 180
 90 tataagacaa gcccacgtca atcagggttt gcaatttacg cgcaatcatt ggaatggcat 240
 91 cgaaaaactc gcgcgcatct tccaccgtca tgtccagcac ctgatgaatg gttttacctt 300
 92 tgtagcggat ttccagggtt tcgcgattgt aacgcttgcc tttacattgg tcgcaaggca 360
 93 cgtacacatc gggcaggaag tgcatttcca ctttgattac gccgtcgccc tggcaggctt 420
 94 acagcgcccg ccgcgcacgt taaaactgaa acgccccggg ttataaccgc gcgcacgggc 480
 95 tttcggtacg ccggcaaaca attcgcgaat cggcgtgaat acgcccgtgt aagttgcccg 540
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W--> 96 **gttggagcgt ggcgtgcgtc caatcnggct ttggttaata tcaatacttt atcgaaaaat 600**
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 97 tccaaacctt taatggactt gtacngngaa acctcngcat tttctgcacn attaangcgt 660
 98 nttgtgcaat anggaacaaa ntgtcgttaa tcagtgtaga atttaccttа accggacacn 720
 99 ccngtgatgc aggtaaataa gcccacggga atgtctaaat tgacgttttt caggttgtta 780
100 ccggaagcgc cgaacaattt gagcattttt ttcttatcaa gtgcggtacg tttttcggt 840
101 atttcgatc                                                       849
104 <210> SEQ ID NO: 2
105 <211> LENGTH: 357
106 <212> TYPE: DNA
107 <213> ORGANISM: Actinobacillus actinomycetemcomitans
109 <400> SEQUENCE: 2
110 gatcactaag ttgttcaatc ctttcgcttg ggaatctttg tctaaatacg gtttatgttg 60
111 cattgcgtta acgtctaaat cacctttaga cactgcagtg tttggcaagg cgtagtcatg 120
112 aataaaacgt attctacgtc taagttgtat tttttctttg ccactttcgc tgcgatttca 180
113 gccacttggt gttccggtcc tgccatcacg cccactttga ttgttgccgg ggcttctgcc 240
114 gccggtttgt ctgccggtgc ggcttccggt ttttctctt cattacaagc ccgttaaggc 300
115 gaatacggag gctaatgttg cgacgcctaa taattttttt caagttcata aaagatc 357
118 <210> SEQ ID NO: 3
119 <211> LENGTH: 886
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121 <213> ORGANISM: Actinobacillus actinomycetemcomitans
123 <220> FEATURE:
124 <221> NAME/KEY: misc_feature
125 <222> LOCATION: (554)
126 <223> OTHER INFORMATION: N stands for any nucleotide.
128 <220> FEATURE:
129 <221> NAME/KEY: misc_feature
130 <222> LOCATION: (596)
131 <223> OTHER INFORMATION: N stands for any nucleotide.
133 <400> SEQUENCE: 3
134 gatcaaactg gtggcgcaag ggcagcgcgt agcaaattta cccgatattt tggtctatgc 60
135 gcgcgtcggc aacggcatgg tagggcgacg ccgtggttta aaccaagcca aagcggaatg 120
136 gcgcttattt aagctaaaac accatcttgg cattcaggga tttttatccg ggctattcac 180
137 ttttgtcctg cgttccggtg ccagattatt gccgacatca ttactgaaaa acatctatca 240
138 aacctttta agaaaataac atgatgaaat taaactgtat tttaaaaata tccggaattt 300
139 ccaccgcact ttttctagcg ggttgttcct caaattcaag tgcgccgacg caatcctctg 360
140 agcaggcgaa ttctgttacg gctgtgaatc ccactgcggt gtacagtaag ccccgcactt 420
141 tggataactt caacgattat gtgaatttct taaaaggtaa agcagcggca gaaggcgttt 480
142 ctgccgacgt attgaatgca caaaataata ttaattatat tcaaaaatcc gtggatttgg 540
143 acgatcaaca agcnggcaga attcgcaagc gtgatccaaa tgccccgccg atcatnaatt 600
144 ccgaacggca cgaccaatta cttaaatcgt gtattaacca agaataaagt agacacggca 660
145 gaagcacgtt attgggaaca attgccgcag cttgaaaatg cttcaaagaa attcagcgta 720
146 ccgaaaaatt atctgttagc cttgtggggc atggagagta gctttggcta ttatcagggc 780
147 aattacgatg tgttatccac cttagccact cttgcttttg acggacgccg tgaagcctta 840
148 ttcagcaaag aattcatcgc cgccatgaaa atgctacagc gcgatc      886
151 <210> SEQ ID NO: 4
152 <211> LENGTH: 507
153 <212> TYPE: DNA
154 <213> ORGANISM: Actinobacillus actinomycetemcomitans
156 <220> FEATURE:
157 <221> NAME/KEY: misc_feature
158 <222> LOCATION: (4)
159 <223> OTHER INFORMATION: N stands for any nucleotide.
161 <220> FEATURE:
162 <221> NAME/KEY: misc_feature
163 <222> LOCATION: (9)
164 <223> OTHER INFORMATION: N stands for any nucleotide.
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167 <221> NAME/KEY: misc_feature
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169 <223> OTHER INFORMATION: N stands for any nucleotide.
171 <220> FEATURE:
172 <221> NAME/KEY: misc_feature
173 <222> LOCATION: (23)
174 <223> OTHER INFORMATION: N stands for any nucleotide.
176 <220> FEATURE:
177 <221> NAME/KEY: misc_feature
178 <222> LOCATION: (29)
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W--> 143

RAW SEQUENCE LISTING   DATE: 01/18/2006
PATENT APPLICATION: US/09/980,845A   TIME: 15:36:00

Input Set : **A:\seqlistcorrected.2002.06.21.txt**
Output Set: **N:\CRF4\01182006\I980845A.raw**

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179 <223> OTHER INFORMATION: N stands for any nucleotide.
181 <220> FEATURE:
182 <221> NAME/KEY: misc_feature
183 <222> LOCATION: (32)
184 <223> OTHER INFORMATION: N stands for any nucleotide.
186 <220> FEATURE:
187 <221> NAME/KEY: misc_feature
188 <222> LOCATION: (35)..(36)
189 <223> OTHER INFORMATION: N stands for any nucleotide.
191 <220> FEATURE:
192 <221> NAME/KEY: misc_feature
193 <222> LOCATION: (39)
194 <223> OTHER INFORMATION: N stands for any nucleotide.
196 <220> FEATURE:
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198 <222> LOCATION: (42)
199 <223> OTHER INFORMATION: N stands for any nucleotide.
201 <220> FEATURE:
202 <221> NAME/KEY: misc_feature
203 <222> LOCATION: (45)
204 <223> OTHER INFORMATION: N stands for any nucleotide.
206 <220> FEATURE:
207 <221> NAME/KEY: misc_feature
208 <222> LOCATION: (49)
209 <223> OTHER INFORMATION: N stands for any nucleotide.
211 <220> FEATURE:
212 <221> NAME/KEY: misc_feature
213 <222> LOCATION: (52)
214 <223> OTHER INFORMATION: N stands for any nucleotide.
216 <220> FEATURE:
217 <221> NAME/KEY: misc_feature
218 <222> LOCATION: (58)
219 <223> OTHER INFORMATION: N stands for any nucleotide.
221 <220> FEATURE:
222 <221> NAME/KEY: misc_feature
223 <222> LOCATION: (61)..(62)
224 <223> OTHER INFORMATION: N stands for any nucleotide.
226 <220> FEATURE:
227 <221> NAME/KEY: misc_feature
228 <222> LOCATION: (65)
229 <223> OTHER INFORMATION: N stands for any nucleotide.
231 <220> FEATURE:
232 <221> NAME/KEY: misc_feature
233 <222> LOCATION: (69)
234 <223> OTHER INFORMATION: N stands for any nucleotide.
236 <220> FEATURE:
237 <221> NAME/KEY: misc_feature
238 <222> LOCATION: (73)
239 <223> OTHER INFORMATION: N stands for any polynucleotide.
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"n" can only represent a single nucleotide

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241 <220> FEATURE:
242 <221> NAME/KEY: misc_feature
243 <222> LOCATION: (97)
244 <223> OTHER INFORMATION: N stands for any nucleotide.
246 <220> FEATURE:
247 <221> NAME/KEY: misc_feature
248 <222> LOCATION: (102)
249 <223> OTHER INFORMATION: N stands for any nucleotide.
251 <220> FEATURE:
252 <221> NAME/KEY: misc_feature
253 <222> LOCATION: (138)
254 <223> OTHER INFORMATION: N stands for any nucleotide.
256 <220> FEATURE:
257 <221> NAME/KEY: misc_feature
258 <222> LOCATION: (457)
259 <223> OTHER INFORMATION: N stands for any nucleotide.
261 <220> FEATURE:
262 <221> NAME/KEY: misc_feature
263 <222> LOCATION: (459)
264 <223> OTHER INFORMATION: N stands for any nucleotide.
266 <220> FEATURE:
267 <221> NAME/KEY: misc_feature
268 <222> LOCATION: (467)
269 <223> OTHER INFORMATION: N stands for any nucleotide.
271 <400> SEQUENCE: 4
W--> 272 ttgntaccnt agccgctgac nanaactanc angcnntgna tnatntcgna tnattaanat 60
273 nngcnaggng cancagctta cctttgccga cggttcnctg tntgaaagcg ccattcgcaa 120
274 agtgccggtg gaggcggnga aaattcactc acttggtgcg gaaggcaatg atgtgggatt 180
275 gaaagcccat catggcgggt ggataaagcg ttattttta tgtcggcaga tgcctttcct 240
276 gcgttaaatg cgttattaga cgaaaatttt tcgtatcagg acacagcagt ttacggcgag 300
277 aattttgtgg tttccgcgct gaatgaagat tccgtgtgtg tgggcgatat ttatcaaatc 360
278 ggctcctgcg tggtggaggt gtcgcagccg cgtaaacctt gtgagcgctt atcgaaaaat 420
279 accaataatc cgaacacgca acaaaccgtg tacgctncng ctggtcnggc tggtatgtgc 480
280 cggtggtacc ccaagggggа aattcaa                                     507
283 <210> SEQ ID NO: 5
284 <211> LENGTH: 1087
285 <212> TYPE: DNA
286 <213> ORGANISM: Actinobacillus actinomycetemcomitans
288 <220> FEATURE:
289 <221> NAME/KEY: misc_feature
290 <222> LOCATION: (622)
291 <223> OTHER INFORMATION: N stands for any nucleotide.
293 <220> FEATURE:
294 <221> NAME/KEY: misc_feature
295 <222> LOCATION: (642)
296 <223> OTHER INFORMATION: N stands for any nucleotide.
298 <220> FEATURE:
299 <221> NAME/KEY: misc_feature
300 <222> LOCATION: (661)
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RAW SEQUENCE LISTING ERROR SUMMARY   DATE: 01/18/2006
PATENT APPLICATION: **US/09/980,845A**   TIME: 15:36:01

Input Set : **A:\seqlistcorrected.2002.06.21.txt**
Output Set: **N:\CRF4\01182006\I980845A.raw**

<u>Please Note:</u>
**Use of n and/or Xaa have been detected in the Sequence Listing. Please review the
Sequence Listing to ensure that a corresponding explanation is presented in the <220>
to <223> fields of each sequence which presents at least one n or Xaa.**

Seq#:1; N Pos. 566,625,627,636,650,656,661,672,681,720,723
Seq#:3; N Pos. 554,596
Seq#:4; N Pos. 4,9,21,23,29,32,35,36,39,42,45,49,52,58,61,62,65,69,73,97
Seq#:4; N Pos. 102,138,457,459,467
Seq#:5; N Pos. 622,642,661,669,685,690,700
Seq#:6; N Pos. 609,614,651,665
Seq#:7; N Pos. 532,630,696,710,722,725
Seq#:8; N Pos. 538
Seq#:12; N Pos. 131,151,170,178,194,199,209
Seq#:18; Xaa Pos. 43,50,59,66,69

VERIFICATION SUMMARY   DATE: 01/18/2006
PATENT APPLICATION: **US/09/980,845A**   TIME: 15:36:01

Input Set : **A:\seqlistcorrected.2002.06.21.txt**
Output Set: **N:\CRF4\01182006\I980845A.raw**

```
L:13 M:270 C: Current Application Number differs, Replaced Application Number
L:14 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:96 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:540
M:341 Repeated in SeqNo=1
L:143 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:540
L:272 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:0
M:341 Repeated in SeqNo=4
L:334 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:600
M:341 Repeated in SeqNo=5
L:381 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:600
M:341 Repeated in SeqNo=6
L:429 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:480
M:341 Repeated in SeqNo=7
L:456 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:480
L:551 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:120
M:341 Repeated in SeqNo=12
L:709 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18 after pos.:32
M:341 Repeated in SeqNo=18
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